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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,138	04/30/2001	Hernan G. Otero	21710-68171	3105
20002	7590 03/08/200 ASCHOFF, TALWAL	EXAMINER		
50 LOCUSTAY	VENUE	PATEL, JAGDISH		
NEW CANAAN, CT 06840			ART UNIT	PAPER NUMBER
		3693		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	. 03/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		09/845,138	OTERO ET AL.	OTERO ET AL.		
		Examiner	Art Unit	·		
		JAGDISH PATEL	3693			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet w	ith the correspondence a	ddress		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailine and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI: 136(a). In no event, however, may a will apply and will expire SIX (6) MON e, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 26 S	September 2006.				
2a)□		s action is non-final.				
3)	,—					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.	•		
Dispositi	on of Claims			•		
5)□ 6)⊠ 7)□	Claim(s) 6-13,18-28 and 33-45 is/are pending 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 6-13,18-28 and 33-45 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicati	on Papers					
10)[The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2.	cepted or b) objected to drawing(s) be held in abeyar tion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 C			
Priority u	ınder 35 U.S.C. § 119					
12)[_] a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea see the attached detailed Office action for a list	ts have been received. ts have been received in A crity documents have been u (PCT Rule 17.2(a)).	oplication No received in this National	l Stage		
Attachmen	• •	_				
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application			

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DETAILED ACTION

- 1. In view of the Appellant's brief filed on 9/26/2006 PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.
 - To avoid abandonment of the application, appellant must exercise one of the following two options:
 - (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.
 - If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).
- 2. The examiner for this application has changed. Please indicate Examiner <u>Jagdish Patel</u> as the examiner of record in all future correspondences.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 6-13, 18-28 and 33-45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claim 6 is analyzed as exemplary to all other claims.
- Claim 6 fails to specify how the apparatus executes a trade because there are no functioning elements which perform this process. The claim recites that a first algorithm plug-in for implementing a first trading strategy and a second plug-in for carrying out trades in a first market are implemented in an engine. Therefore, the claimed apparatus is an engine (i.e. JAVA or similar platform) having the first and the second plug-ins implemented in it. The apparatus

claim fails to specify and functional relationship of the plug-ins and the role of the plug-ins in executing a trade.

6. The Claims 6-28 are also rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01.

The apparatus recites that the first set of plug-ins <u>may be</u> substituted for the second set of plug-ins. This requires that only one set is structurally (or functionally) related to the engine in which the plug-ins can be implemented. Therefore, the other set of plug-ins is not structurally (or functionally) related to the engine.

- 7. Claims 27 and 28 are not sufficiently precise due to the combining of two different statutory classes of invention in a single claim. They combine product or apparatus (a plug-in) and a method. A claim is considered indefinite if it does not apprise those skilled in the are of its scope. Amgen, Inc. v. Chugai Pharm. Co., 927 F. 2d 1200, 1217 (Fed. Cir. 1991).
- 8. Claims 27 and 28 fail to particularly pointing out and distinctly claiming the subject matter which the applicant as the invention because the claim fails to specify any structure or functionality of the recited plug-ins. One of ordinary skill in the art would not be able to ascertain the scope the claimed inventions.
- 9. Claim 33-45 are rejected under 35 USC 112 (second) because they do not positive recite that the configured engine carry out trades in accordance with the trading strategy implemented and in accordance with market rules implemented by the respective plug-ins. The process of

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using is treated as mere intention to carry out trades and therefore renders the claim indefinite as to whether the trades are indeed carried out. It is recommended that the claim be amended to positively recite the process of carrying out trades as follows:

carrying out trades using the configured engine in accordance with;

It is noted that this analysis is also applicable to apparatus claims 40 and 45.

Claim Rejections - 35 USC § 101

10. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

11. Claims 6-13 and 18-28 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

In order to be statutory subject matter under 35 U.S.C. 101 the claimed invention must be directed to a "useful, concrete and tangible result". (see Street Bank & Trust Co. v. Signature Financial Group, 149 F.3d 1368 (Fed. Cir. Jul. 23, 1998).). In the instant case, apparatus of claim 6 fails to produce a useful result because the claimed invention as a whole does not satisfy the utility requirement of 101. The utility must be specific, substantial and credible. The claimed invention recites a first algorithm plug-in for implementing a first trading strategy and a second plug-in for carrying out trades in a first market. While these plug-ins are recited as being implemented in an engine (interpreted as a JAVA or similar platforms) and treated as executables do not produce useful result because there are no limitations, i.e. structural elements which actually execute trades. Note that function of executing trade is recited only as an intended function of the implementation of the plug-ins in the engine ("..in order to execute a trade).

Therefore, it is asserted that there is no specific utility of the apparatus recited and therefore the claimed apparatus fails to the "useful" prong of the test to be deemed statutory subject matter under 35 U.S.C. 101.

This or similar analysis applies to dependent claims 7-13. Method claims 18-26 recite process underlying the apparatus of claims 7-13 and therefore rejected as per apparatus claims.

Claims 27 and 28 are rejected because the claimed inventions do not fall within one of the four categories of invention permitted by 35 USC 101.

If the claimed invention does not fall within one of the four categories, or if the claimed invention is directed to multiple statutory categories of invention the claimed invention is non-statutory.

The following are four statutory categories of inventions under 35 USC 101.

A "machine", "manufacture", and "composition of matter" all define things or products.

Claim 27 and 28 both recite a plug-ins which are treated as algorithms. Claims 27 and 28 do not fall into any of the aforementioned categories of the inventions and therefore are directed to non-statutory subject matter.

It appears the claimed invention is directed to multiple statutory categories of invention, see the analysis in MPEP 2173.05(p). Claims 27 and 28 recite a product (?) and a process. Therefore, the claimed inventions are deemed non-statutory under 35 USC 101.

Claim Objections

Claims 27 and 28 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

See also MPEP § 608.01(n), "Infringement Test" for dependent claims. The test for a proper dependent claim is whether the dependent claim includes every limitation of the parent claim. The test is not whether the claims differ in scope. A proper dependent claim shall not conceivably be infringed by anything which would not also infringe the basic claim.

Claim 27 recites a product which depends upon process claim 22. An algorithm plug-in would infringe on claim 22. However, the algorithm plug-in would not infringe the method steps of claim 22. Since the algorithm plug-in never performs any of the process steps of claim 22. as a result claims 27 is improper dependent claim.

Similarly claim 28 is also treated as improper dependent claim.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAGDISH PATEL whose telephone number is (571) 272-6748. The examiner can normally be reached on 800AM-630PM Mon-Tue and Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **KRAMER JAMES A** can be reached on **(571)272-6783**. The fax phone number for the organization where this application or proceeding is assigned is 517-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jagdish N. Patel

Vassimile

(Primary Examiner, AU 3693)

3/5/07